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See application file for complete search history.

- (56)
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1122 days.

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This patent is subject to a terminal disclaimer.

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- (65) **Prior Publication Data**

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Related U.S. Application Data

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CPC *A61B 17/0401* (2013.01); *A61B 17/06166*
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- (58) **Field of Classification Search**
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A61F 2/0811; Y10T 408/9048; Y10T

(57) **ABSTRACT**

A method and apparatus for coupling a soft tissue implant into a locking cavity formed within a bone is disclosed. The method includes bringing a bone cutting tool extending along a longitudinal axis into engagement with an outer surface of the bone. The bone cutting tool is rotated about the longitudinal axis while driving it from the outer surface of the bone to a predetermined depth in the bone to form a bore. The bone cutting tool is then continuously rotated at the predetermined depth to establish an enlarged bone pocket at a distal end of the bore. The bone pocket defines a shoulder extending around a circumference between the bone pocket and bore. The bone cutting tool is removed from the bone pocket and bore. The fixation device is then inserted into the bone pocket through the bore, where it is seated against the bone pocket shoulder.

20 Claims, 53 Drawing Sheets

